

Tisa, Kimberly

From: Tisa, Kimberly
Sent: Thursday, September 03, 2015 3:08 PM
To: Harley A. Langford
Cc: jtolsen.tighebond.com; Douglas T. Belfiore; Tisa, Kimberly; Trombly, Gary
Subject: RE: PCB abatement and soil removal: Former Guilford HS

Thanks.

I have no further questions on the means/methods for dealing with removal/disposal of the \geq 50 ppm tarlike substance identified on the 1958 construction steel beams.

From: Harley A. Langford [mailto:HALangford@tigheBond.com]
Sent: Thursday, September 03, 2015 2:47 PM
To: Tisa, Kimberly
Cc: jtolsen.tighebond.com; Douglas T. Belfiore
Subject: RE: PCB abatement and soil removal: Former Guilford HS

Kim,

The following clarification and additional details are being provided in response to the conversation we had earlier today.

- The tar observed on both the 1958 and 1968 beams was applied over a manufacturer applied coating and not a field applied paint.
- The steel beams are located inside the building walls and are inaccessible without demolishing masonry facades. As such, the tar coating was most likely applied during building construction and not at a later date.
- Manafort proposes to dispose of whole beams or large sections with observed tar coating and has not proposed to cut apart individual beams.
- After the start of demolition additional tar samples were collected from the 1968 steel to further demonstrate that PCB concentrations were $<$ 50 ppm and that the material can be classified as an "excluded product". Laboratory data for the tar coatings is attached. Samples 8-12-PCB-01 through 03 were collected from tar applied to the 1968 steel and samples 8-12-04 through 06 were collected from tar applied to the 1958 steel.
- Confirmatory soil sampling will continue in accordance with sub-part O and the approved SIP

Please let me know if you approve the management plan for the 1958 tar coated steel or if you would like any additional information.

Thanks,

Harley Langford, LEP

Office (860)704-4781

Cell (860)878-2943

Tighe&Bond, Inc

From: Harley A. Langford
Sent: Wednesday, September 02, 2015 1:41 PM

To: 'Tisa, Kimberly (Tisa.Kimberly@epa.gov)' <Tisa.Kimberly@epa.gov>
Cc: James T. Olsen <JTolsen@tighebond.com>; Douglas T. Belfiore <DTBelfiore@tigheBond.com>
Subject: PCB abatement and soil removal: Former Guilford HS

Hi Kim,

Black tar was observed on structural steel components used in construction of the 1968 building addition during assessment activities conducted during the SIP development. Analytical results for the observed tar were < 50 ppm. Steel coated with this material will be removed during building demolition and recycled at SIMS Metal Management, of New Haven, CT (see attached approval letter).

Now that abatement and selective demolition has started, we observed a second type of tar on the steel components used in the 1958 construction only. Sample results for the second type of tar are > 50 ppm. Based on conversations with the abatement/demolition contractor, Manafort Brothers, Inc. the proposed abatement and disposal means are selective demolition and waste segregation. Manafort will use a hydraulic shear to cut off the portions of the steel beams that have tar on them and will segregate them for disposal as a PCB Bulk Product Waste > 50 ppm at Waste Management Inc, of Rochester, NH. Areas where the tar have been applied are easily identified and can be segregated effectively, as such confirmatory sampling is not proposed to demonstrate that the non-tar coated steel is not a PCB waste. Steel without the tar coating will be recycled as a non PCB containing material.

The properties of the two types of tar are distinct and easily identifiable in the field (see attached pictures), with the < 50 ppm tar being a thinner more evenly applied material and the > 50 ppm tar being a thicker more tar-like material that is not evenly applied. The observed properties of the tar along with the construction dates will be used to properly segregate < 50 ppm tar-coated steel from > 50 ppm tar-coated steel.

Additionally, Tighe & Bond has collected post excavation confirmatory soil samples from adjacent to the building and below areas where PCB source materials were used during construction. Confirmatory soil sampling has been conducted in accordance with the SIP. Specifically three collinear samples were collected at five foot intervals from the sidewall and bottom of the one-foot deep trench/excavation and composited (i.e. three sidewall samples were composited and three bottom samples were composited).

Analytical results for most (> 90%) of the composited samples have been below the laboratory reporting limit of < 0.33 ppm. However, a few have been above 0.33 ppm and one was 1.1 ppm. As a result, non-composited single point samples have been collected at the same five foot interval from sample locations where results were > 0.33 ppm but < 1 ppm. Additional soil was excavated from the sample area that was representative of the 1.1 ppm result and single point samples have been collected at a five foot interval from the newly excavated area to demonstrate that the cleanup was effective. Sample results for these areas will be provided to you next week once we receive the final reports from the lab and get the results tabulated.

Please let me know if you have any questions or comments on our management approach for the newly identified tar-coated steel or our soil cleanup and confirmatory sampling approach.

Thanks,

Harley Langford, LEP | Project Environmental Scientist

Tighe & Bond | 213 Court Street Suite 1100 | Middletown, CT, 06457 | 860-704-4781 | 860.878.2943 (cell)

www.tighebond.com | Follow us on: [Twitter](#) [Facebook](#) [LinkedIn](#)

Tighe & Bond



PHOENIX Environmental Laboratories, Inc.

587 East Middle Turnpike, P.O. Box 370, Manchester, CT 06040

Email: info@phoenixlabs.com Fax (860) 645-0823

Client Services (860) 645-8726

CHAIN OF CUSTODY RECORD

Coolant: IPK ICE No Yes

Temp: °C °F of 1

Contact Options:

Fax:
Phone:
Email:

Customer: TIGHE & BOND
Address: 213 COURT ST

PHOTOCOPYED

Project: FORMER GOLF COURSE HS Project P.O.: 16-06621
Report to: DOUG BEEFLORE & MARIE LAUGHER This section MUST be
Invoice to: _____ completed with
Bottle Quantities.

Client Sample - Information - Identification
Signature: _____ Date: 8/12/15

Matrix Code: _____
DW=Drinking Water GW=Ground Water SW=Surface Water WW=Waste Water
RW=Raw Water SE=Sediment SL=Sludge S=Soil SD=Solid W=Wipe
OL=Oil B=Bulk L=Liquid

PHOENIX USE ONLY SAMPLE #	Customer Sample Identification	Sample Matrix	Date Sampled	Time Sampled
73558	8-12-PCB-01	B	8/12/15	AM
73559	02			
73560	03			
73561	04			
73562	05			
73563	06			

PUBS BY SOXNET

- Soil VOA Vials [] methanol [] H₂O
- GL Soil container []
- 40 ml VOA Vial [] oz
- GL Amber 1000ml [] As is [] HCl
- PL As is [] 250ml [] 500ml [] 1000ml
- PL H₂SO₄ [] 250ml [] 500ml
- PL HNO₃ 250ml
- PL NaOH 250ml
- Bacteria Bottle

Relinquished by: _____ Accepted by: _____

Date: 8/12/15 Time: 16:52

Comments: Special Requirements or Regulations:

PLEASE USE RL < 1 PPM
SPECIAL ANALYSE

Turnaround:

- 1 Day*
- 2 Days*
- 3 Days*
- Standard
- Other

* SURCHARGE APPLIES

RI Direct Exposure (Residential)
 GW
 Other

CT RCPC Cert
 GW Protection
 SW Protection
 GA Mobility
 GB Mobility
 Residential DEC
 I/C DEC
 Other

MA MCP Certification
 GW-1
 GW-2
 GW-3
 S-1
 S-2
 S-3
 MWRA eSMART
 Other

Data Format Excel
 PDF
 GIS/Key
 EQUIS
 Other

Data Package Tier II Checklist
 Full Data Package*
 Phoenix Std Report
 Other

State where samples were collected: CT

* SURCHARGE APPLIES

The samples were received at 11C with cooling initiated.
(Note acceptance criteria is above freezing up to 6°C)

Temperature Narration

SDG I.D.: GBJ73558

August 19, 2015

RCP Certification Report

Environmental Laboratories, Inc.
587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
Tel. (860) 645-1102 Fax (860) 645-0823



QC (Batch Specific)
 ----- Sample No: B173551, QA/QC Batch: 317098 -----
 All LCS recoveries were within 40 - 140 with the following exceptions: None.
 All LCS/LCSD RPDs were less than 30% with the following exceptions: None.
 ----- Sample No: B174181, QA/QC Batch: 317100 -----
 All LCS recoveries were within 40 - 140 with the following exceptions: None.
 All LCS/LCSD RPDs were less than 30% with the following exceptions: None.

Instrument: Au-ecdcart1 08/14/15-1 (B173559)
 The initial calibration (PC625AI) RSD for the compound list was less than 20% except for the following compounds: None.
 The initial calibration (PC625BI) RSD for the compound list was less than 20% except for the following compounds: None.
 The continuing calibration %D for the compound list was less than 15% except for the following compounds: None.
Printed Name: Adam Werner
Position: Chemist
Date: 8/14/2015

Instrument: Au-ecd8 08/14/15-1 (B173560)
 The initial calibration (PC810AI) RSD for the compound list was less than 20% except for the following compounds: None.
 The initial calibration (PC810BI) RSD for the compound list was less than 20% except for the following compounds: None.
 The continuing calibration %D for the compound list was less than 15% except for the following compounds: None.
Printed Name: Adam Werner
Position: Chemist
Date: 8/15/2015

SDG I.D.: GBJ73558

RCP Certification Report

August 19, 2015

Environmental Laboratories, Inc.
 587 East Middle Turnpike, P.O. Box 370, Manchester, CT 06045
 Tel. (860) 645-1102 Fax (860) 645-0823



PCB Narration

Were all QA/QC performance criteria specified in the Reasonable Confidence Protocol documents achieved? Yes.

Instrument: Au-ecd24 08/14/15-1 (BJ73558)

The initial calibration (PC731AI) RSD for the compound list was less than 20% except for the following compounds: None.

The initial calibration (PC731BI) RSD for the compound list was less than 20% except for the following compounds: None.

The continuing calibration %D for the compound list was less than 15% except for the following compounds: None.

Printed Name Adam Werner

Position: Chemist

Date: 8/14/2015

Instrument: Au-ecd24 08/17/15-1 (BJ73563)

The initial calibration (PC731AI) RSD for the compound list was less than 20% except for the following compounds: None.

The initial calibration (PC731BI) RSD for the compound list was less than 20% except for the following compounds: None.

The continuing calibration %D for the compound list was less than 15% except for the following compounds: None.

Printed Name Adam Werner

Position: Chemist

Date: 8/17/2015

Instrument: Au-ecd29 08/14/15-1 (BJ73561)

The initial calibration (PC811AI) RSD for the compound list was less than 20% except for the following compounds: None.

The initial calibration (PC811BI) RSD for the compound list was less than 20% except for the following compounds: None.

The continuing calibration %D for the compound list was less than 15% except for the following compounds: None.

Printed Name Adam Werner

Position: Chemist

Date: 8/14/2015

Instrument: Au-ecd5 08/15/15-1 (BJ73562, BJ73563)

The initial calibration (PC714AI) RSD for the compound list was less than 20% except for the following compounds: None.

The initial calibration (PC714BI) RSD for the compound list was less than 20% except for the following compounds: None.

The continuing calibration %D for the compound list was less than 15% except for the following compounds: None.

RCP Certification Report

August 19, 2015

SDG I.D.: GBJ73558

Environmental Laboratories, Inc.
587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
Tel. (860) 645-1102 Fax (860) 645-0823



Reasonable Confidence Protocol Laboratory Analysis QA/QC Certification Form

Laboratory Name: Phoenix Environmental Labs, Inc. **Client:** Tighe & Bond

Project Location: FORMER GUILFORD HS **Project Number:**

Laboratory Sample ID(s): BJ73558, BJ73559, BJ73560, BJ73561, BJ73562, BJ73563

Sampling Date(s): 8/12/2015

RCP Methods Used:

- 8082 8151 8260 8270 ETPH 9010/9012 VPH
- 1311/1312 6010 7000 7196 7470/7471 8081 EPH T015

1.	For each analytical method referenced in this laboratory report package, were all specified QA/QC performance criteria followed, including the requirement to explain any criteria falling outside of acceptable guidelines, as specified in the CT DEP method-specific Reasonable Confidence Protocol documents?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
1a.	Were the method specified preservation and holding time requirements met?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
1b.	EPH and VPH methods only: Was the VPH or EPH method conducted without significant modifications (see section 11.3 of respective RCP methods)	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> NA
2.	Were all samples received by the laboratory in a condition consistent with that described on the associated Chain-of-Custody document(s)?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
3.	Were samples received at an appropriate temperature (< 6 Degrees C)?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> NA
4.	Were all QA/QC performance criteria specified in the Reasonable Confidence Protocol documents achieved?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
5a.	Were reporting limits specified or referenced on the chain-of-custody?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
5b.	Were these reporting limits met?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> NA
6.	For each analytical method referenced in this laboratory report package, were results reported for all constituents identified in the method-specific analyte lists presented in the Reasonable Confidence Protocol documents?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> NA
7.	Are project-specific matrix spikes and laboratory duplicates included in the data set?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> NA

Note: For all questions to which the response was "No" (with the exception of question #5a, #7), additional information must be provided in an attached narrative. If the answer to question #1, #1A or 1B is "No", the data package does not meet the requirements for "Reasonable Confidence".

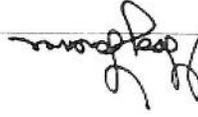
I, the undersigned, attest under the pains and penalties of perjury that, to the best of my knowledge and belief and based upon my personal inquiry of those responsible for providing the information contained in this analytical report, such information is accurate and complete.

Date: Wednesday, August 19, 2015

Printed Name: Greg Lawrence

Position: Assistant Lab Director

Authorized Signature:



Sample Criteria Exceedences Report

GBJ73558 - TIGHE

Criteria: None

State: CT

Phoenix Analyte

*** No Data to Display ***

Criteria

Result

RL

Criteria

RL
Criteria
Analysis
Units

Phoenix Laboratories does not assume responsibility for the data contained in this report. It is provided as an additional tool to identify requested criteria exceedences. All efforts are made to ensure the accuracy of the data (obtained from appropriate agencies). A lack of exceedence information does not necessarily suggest conformance to the criteria. It is ultimately the site professional's responsibility to determine appropriate compliance.





Environmental Laboratories, Inc.
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 Tel. (860) 645-1102 Fax (860) 645-0823

QA/QC Report

August 19, 2015

QA/QC Data

SDG I.D.: GBJ73558

Parameter BIK LCS LCSD % RPD MS % MSD RPD % Rec RPD % Limits Limits

QA/QC Batch 317098 (ug/kg), QC Sample No: BJ73551 10X (BJ73558, BJ73559, BJ73560, BJ73561)

Polychlorinated Biphenyls - Solid

PCB-1016	ND	170	94	86	8.9	90	91	1.1	40 - 140	30
PCB-1221	ND	170							40 - 140	30
PCB-1232	ND	170							40 - 140	30
PCB-1242	ND	170							40 - 140	30
PCB-1248	ND	170							40 - 140	30
PCB-1254	ND	170							40 - 140	30
PCB-1260	ND	170	90	86	4.5	90	0.0		40 - 140	30
PCB-1262	ND	170							40 - 140	30
PCB-1268	ND	170							40 - 140	30
% DCBP (Surrogate Rec)	109	%	98	92	6.3	96	97	1.0	30 - 150	30
% TCMX (Surrogate Rec)	98	%	97	90	7.5	88	93	5.5	30 - 150	30

QA/QC Batch 317100 (ug/kg), QC Sample No: BJ74181 10X (BJ73562, BJ73563)

Polychlorinated Biphenyls - Solid

PCB-1016	ND	170	86	98	13.0	103	106	2.9	40 - 140	30
PCB-1221	ND	170							40 - 140	30
PCB-1232	ND	170							40 - 140	30
PCB-1242	ND	170							40 - 140	30
PCB-1248	ND	170							40 - 140	30
PCB-1254	ND	170							40 - 140	30
PCB-1260	ND	170	85	96	12.2	98	105	6.9	40 - 140	30
PCB-1262	ND	170							40 - 140	30
PCB-1268	ND	170							40 - 140	30
% DCBP (Surrogate Rec)	107	%	92	107	15.1	107	114	6.3	30 - 150	30
% TCMX (Surrogate Rec)	97	%	87	98	11.9	103	107	3.8	30 - 150	30

If there are any questions regarding this data, please call Phoenix Client Services at extension 200.

RPD - Relative Percent Difference
 LCS - Laboratory Control Sample
 LCSD - Laboratory Control Sample Duplicate
 MS - Matrix Spike
 MS Dup - Matrix Spike Duplicate
 NC - No Criteria
 Intf - Interference

Phyllis Shiller, Laboratory Director
 August 19, 2015

Project ID: FORMER GUILFORD HS
Client ID: 8-12-PCB-06

Phoenix I.D.: BJ73563

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
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RL/PQL=Reporting/Practical Quantitation Level ND=Not Detected BRL=Below Reporting Level

Comments:

Results are reported on an "as received" basis, and are not corrected for dry weight.

All soils, solids and sludges are reported on a dry weight basis unless otherwise noted in the sample comments.

If there are any questions regarding this data, please call Phoenix Client Services at extension 200. This report must not be reproduced except in full as defined by the attached chain of custody.

Phyllis Shiller, Laboratory Director

August 19, 2015

Reviewed and Released by: Greg Lawrence, Assistant Lab Director



Environmental Laboratories, Inc.
 587 East Middle Turnpike, P.O. Box 370, Manchester, CT 06045
 Tel. (860) 645-1102 Fax (860) 645-0823

FOR: Attn: Mr Douglas Belfiore
 Tighe & Bond
 213 Court St, Suite 1100
 Middletown, CT 06457

Analysis Report

August 19, 2015

Sample Information

Matrix: SOLID
 Location Code: TIGHE
 Rush Request: 48 Hour
 P.O.#: 16-06621

Custody Information

Collected by: LK
 Received by: see "By" below
 Analyzed by: see "By" below
 Date: 08/12/15
 Time: 16:52

Laboratory Data

SDG ID: GBJ73558
 Phoenix ID: BJ73563

Project ID: FORMER GUILFORD HS
 Client ID: 8-12-PCB-06

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Extraction for PCB							
Completed							
08/13/15 BQ/Z SW3540C							
PCB (Soxhlet SW3540C)							
PCB-1016	ND	4000	ug/kg	250	08/17/15	AW	SW8082A
PCB-1221	ND	4000	ug/kg	250	08/17/15	AW	SW8082A
PCB-1232	ND	4000	ug/kg	250	08/17/15	AW	SW8082A
PCB-1242	ND	4000	ug/kg	250	08/17/15	AW	SW8082A
PCB-1248	ND	4000	ug/kg	250	08/17/15	AW	SW8082A
PCB-1254	140000	4000	ug/kg	250	08/17/15	AW	SW8082A
PCB-1260	ND	4000	ug/kg	250	08/17/15	AW	SW8082A
PCB-1262	ND	4000	ug/kg	250	08/17/15	AW	SW8082A
PCB-1268	ND	4000	ug/kg	250	08/17/15	AW	SW8082A
QA/QC Surrogates							
% DCBP	Diluted Out		%	250	08/17/15	AW	30 - 150 %
% TCMX	Diluted Out		%	250	08/17/15	AW	30 - 150 %

Project ID: FORMER GUILFORD HS
Client ID: 8-12-PCB-05
Phoenix I.D.: BJ73562

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
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RL/PQL=Reporting/Practical Quantitation Level ND=Not Detected BRL=Below Reporting Level

Comments:

Results are reported on an "as received" basis, and are not corrected for dry weight.

PCB Comment: For PCBs, in order to reach the desired RL, multiple cleanup steps were performed. The extract was cleaned up with a combination

of sulfuric acid, potassium permanganate, copper powder and additional florisil.

All soils, solids and sludges are reported on a dry weight basis unless otherwise noted in the sample comments.

If there are any questions regarding this data, please call Phoenix Client Services at extension 200. This report must not be reproduced except in full as defined by the attached chain of custody.

Phyllis Schiller, Laboratory Director

August 19, 2015

Reviewed and Released by: Greg Lawrence, Assistant Lab Director



Environmental Laboratories, Inc.
 587 East Middle Turnpike, P.O. Box 370, Manchester, CT 06045
 Tel: (860) 645-1102 Fax (860) 645-0823

FOR: Attn: Mr Douglas Belfiore
 Tighe & Bond
 213 Court St, Suite 1100
 Middletown, CT 06457

Analysis Report

August 19, 2015

Sample Information

Matrix: SOLID
 Location Code: TIGHE
 Rush Request: 48 Hour
 P.O.#: 16-06621

Custody Information

Collected by: LK
 Received by: see "By" below
 Analyzed by: see "By" below
 Date: 08/12/15
 Time: 16:52

Laboratory Data

SDG ID: GBJ73558
 Phoenix ID: BJ73562

Project ID: FORMER GUILFORD HS
 Client ID: 8-12-PCB-05

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Extraction for PCB							
Completed							
08/13/15 BQ/Z SW3540C							
PCB-1016	ND	6500	ug/kg	20	08/15/15	AW	SW8082A
PCB-1221	ND	6500	ug/kg	20	08/15/15	AW	SW8082A
PCB-1232	ND	6500	ug/kg	20	08/15/15	AW	SW8082A
PCB-1242	ND	6500	ug/kg	20	08/15/15	AW	SW8082A
PCB-1248	ND	6500	ug/kg	20	08/15/15	AW	SW8082A
PCB-1254	83000	6500	ug/kg	20	08/15/15	AW	SW8082A
PCB-1260	ND	6500	ug/kg	20	08/15/15	AW	SW8082A
PCB-1262	ND	6500	ug/kg	20	08/15/15	AW	SW8082A
PCB-1268	ND	6500	ug/kg	20	08/15/15	AW	SW8082A
QA/QC Surrogates							
% DCBP	107		%	20	08/15/15	AW	30 - 150 %
% TCMX	98		%	20	08/15/15	AW	30 - 150 %

PCB (Soxhlet SW3540C)

Reviewed and Released by: Greg Lawrence, Assistant Lab Director

August 19, 2015

Phyllis Shiller, Laboratory Director



All soils, solids and sludges are reported on a dry weight basis unless otherwise noted in the sample comments. If there are any questions regarding this data, please call Phoenix Client Services at extension 200. This report must not be reproduced except in full as defined by the attached chain of custody.

Results are reported on an "as received" basis, and are not corrected for dry weight.

Comments:

RL/PQL=Reporting/Practical Quantitation Level ND=Not Detected BRL=Below Reporting Level

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Project ID: FORMER GUILFORD HS							
Client ID: 8-12-PCB-04							
Phoenix I.D.: BJ73561							



Environmental Laboratories, Inc.
 587 East Middle Turnpike, P.O. Box 370, Manchester, CT 06045
 Tel. (860) 645-1102 Fax (860) 645-0823

FOR: Attn: Mr Douglas Belfiore
 Tighe & Bond
 213 Court St, Suite 1100
 Middletown, CT 06457

Analysis Report

August 19, 2015

Sample Information

Matrix: SOLID
 Location Code: TIGHE
 Rush Request: 48 Hour
 P.O.#: 16-06621

Custody Information

Collected by: LK
 Received by: see "By" below
 Analyzed by: see "By" below

Laboratory Data

SDG ID: GBJ73558
 Phoenix ID: BJT73561

Project ID: FORMER GUILFORD HS
 Client ID: 8-12-PCB-04

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Extraction for PCB	Completed				08/13/15	NB/Z	SW3540C

PCB (Soxhlet SW3540C)

QA/QC Surrogates	Diluted Out	41000	ug/kg	250	08/14/15	AW	SW8082A
PCB-1016	ND	41000	ug/kg	250	08/14/15	AW	SW8082A
PCB-1221	ND	41000	ug/kg	250	08/14/15	AW	SW8082A
PCB-1232	ND	41000	ug/kg	250	08/14/15	AW	SW8082A
PCB-1242	ND	41000	ug/kg	250	08/14/15	AW	SW8082A
PCB-1248	ND	41000	ug/kg	250	08/14/15	AW	SW8082A
PCB-1254	260000	41000	ug/kg	250	08/14/15	AW	SW8082A
PCB-1260	ND	41000	ug/kg	250	08/14/15	AW	SW8082A
PCB-1262	ND	41000	ug/kg	250	08/14/15	AW	SW8082A
PCB-1268	ND	41000	ug/kg	250	08/14/15	AW	SW8082A
% DCBP	Diluted Out	%		250	08/14/15	AW	30 - 150 %
% TCMX	Diluted Out	%		250	08/14/15	AW	30 - 150 %

Phoenix I.D.: BJ73560

Project ID: FORMER GUILFORD HS

Client ID: 8-12-PCB-03

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
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RL/PQL=Reporting/Practical Quantitation Level ND=Not Detected BRL=Below Reporting Level

Comments:

Results are reported on an "as received" basis, and are not corrected for dry weight.

All soils, solids and sludges are reported on a dry weight basis unless otherwise noted in the sample comments.

If there are any questions regarding this data, please call Phoenix Client Services at extension 200.

This report must not be reproduced except in full as defined by the attached chain of custody.

[Handwritten Signature]
 Phyllis Shiller, Laboratory Director

August 19, 2015

Reviewed and Released by: Greg Lawrence, Assistant Lab Director



Environmental Laboratories, Inc.
 587 East Middle Turnpike, P.O. Box 370, Manchester, CT 06045
 Tel. (860) 645-1102 Fax (860) 645-0823

FOR: Attn: Mr Douglas Belfiore
 Tighe & Bond
 213 Court St, Suite 1100
 Middletown, CT 06457

Analysis Report

August 19, 2015

Sample Information

Matrix: SOLID
 Location Code: TIGHE
 Rush Request: 48 Hour
 P.O.#: 16-06621

Laboratory Data

Custody Information
 Collected by: LK
 Received by: see "By" below
 Analyzed by: see "By" below

SDG ID: GBJ73558
 Phoenix ID: BJ73560

Project ID: FORMER GUILFORD HS
 Client ID: 8-12-PCB-03

Extraction for PCB Completed
 Parameter Result RL/PQL Units Dilution Date/Time By Reference

Parameter	Result	RL/PQL	Units	Dilution	Date/Time	By Reference
PCB-1016	ND	790	ug/kg	2	08/14/15	AW SW8082A
PCB-1221	ND	790	ug/kg	2	08/14/15	AW SW8082A
PCB-1232	ND	790	ug/kg	2	08/14/15	AW SW8082A
PCB-1242	ND	790	ug/kg	2	08/14/15	AW SW8082A
PCB-1248	ND	790	ug/kg	2	08/14/15	AW SW8082A
PCB-1254	3100	790	ug/kg	2	08/14/15	AW SW8082A
PCB-1260	ND	790	ug/kg	2	08/14/15	AW SW8082A
PCB-1262	ND	790	ug/kg	2	08/14/15	AW SW8082A
PCB-1268	ND	790	ug/kg	2	08/14/15	AW SW8082A
QA/QC Surrogates						
% DCBP	76		%	2	08/14/15	AW 30 - 150 %
% TCMX	81		%	2	08/14/15	AW 30 - 150 %

PCB (Soxhlet SW3540C)

Phoenix I.D.: BJ73559

Project ID: FORMER GUILFORD HS

Client ID: 8-12-PCB-02

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
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RL/PQL=Reporting/Practical Quantitation Level ND=Not Detected BRL=Below Reporting Level

Comments:

Results are reported on an "as received" basis, and are not corrected for dry weight.

All soils, solids and sludges are reported on a dry weight basis unless otherwise noted in the sample comments.

If there are any questions regarding this data, please call Phoenix Client Services at extension 200. This report must not be reproduced except in full as defined by the attached chain of custody.


 Phyllis Shiller, Laboratory Director

August 19, 2015

Reviewed and Released by: Greg Lawrence, Assistant Lab Director



Environmental Laboratories, Inc.
 587 East Middle Turnpike, P.O. Box 370, Manchester, CT 06045
 Tel. (860) 645-1102 Fax (860) 645-0823

FOR: Attn: Mr Douglas Belfiore
 Tighe & Bond
 213 Court St, Suite 1100
 Middletown, CT 06457

Analysis Report

August 19, 2015

Sample Information

Matrix: SOLID
 Location Code: TIGHE
 Rush Request: 48 Hour
 P.O.#: 16-06621

Custody Information

Collected by: LK
 Received by: see "By" below
 Analyzed by: see "By" below
 Date: 08/12/15
 Time: 16:52

Laboratory Data

SDG ID: GBJ73558
 Phoenix ID: BJ73559

Project ID: FORMER GUILFORD HS
 Client ID: 8-12-PCB-02

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Extraction for PCB	Completed				08/13/15	NB/Z	SW3540C

PCB (Soxhlet SW3540C)

PCB-1016	ND	680	ug/kg	2	08/14/15	AW	SW8082A
PCB-1221	ND	680	ug/kg	2	08/14/15 <th>AW</th> <th>SW8082A</th>	AW	SW8082A
PCB-1232	ND	680	ug/kg	2	08/14/15 <th>AW</th> <th>SW8082A</th>	AW	SW8082A
PCB-1242	ND	680	ug/kg	2	08/14/15 <th>AW</th> <th>SW8082A</th>	AW	SW8082A
PCB-1248	4300	680	ug/kg	2	08/14/15 <th>AW</th> <th>SW8082A</th>	AW	SW8082A
PCB-1254	ND	680	ug/kg	2	08/14/15 <th>AW</th> <th>SW8082A</th>	AW	SW8082A
PCB-1260	ND	680	ug/kg	2	08/14/15 <th>AW</th> <th>SW8082A</th>	AW	SW8082A
PCB-1262	ND	680	ug/kg	2	08/14/15 <th>AW</th> <th>SW8082A</th>	AW	SW8082A
PCB-1268	ND	680	ug/kg	2	08/14/15 <th>AW</th> <th>SW8082A</th>	AW	SW8082A
QA/QC Surrogates							
% DCBP	79		%	2	08/14/15 <th>AW</th> <th>30 - 150 %</th>	AW	30 - 150 %
% TCMX	79		%	2	08/14/15 <th>AW</th> <th>30 - 150 %</th>	AW	30 - 150 %

Phoenix I.D.: BJ73558

Project ID: FORMER GUILFORD HS

Client ID: 8-12-PCB-01

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
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RL/PQL=Reporting/Practical Quantitation Level ND=Not Detected BRL=Below Reporting Level

Comments:

Results are reported on an "as received" basis, and are not corrected for dry weight.

All soils, solids and sludges are reported on a dry weight basis unless otherwise noted in the sample comments.

If there are any questions regarding this data, please call Phoenix Client Services at extension 200. This report must not be reproduced except in full as defined by the attached chain of custody.

Phyllis Shiller
Greg Lawrence
 Phyllis Shiller, Laboratory Director

August 19, 2015

Reviewed and Released by: Greg Lawrence, Assistant Lab Director

Environmental Laboratories, Inc.
 587 East Middle Turnpike, P.O. Box 370, Manchester, CT 06045
 Tel. (860) 645-1102 Fax (860) 645-0823

FOR: Attn: Mr Douglas Belfiore
 Tighe & Bond
 213 Court St, Suite 1100
 Middletown, CT 06457

Analysis Report

August 19, 2015



Sample Information

Matrix: SOLID
 Location Code: TIGHE
 Rush Request: 48 Hour
 P.O.#: 16-06621

Custody Information

Collected by: LK
 Received by: see "By" below
 Analyzed by: see "By" below
 Date: 08/12/15
 Time: 16:52

Laboratory Data

SDG ID: GBJ73558
 Phoenix ID: BJT3558

Project ID: FORMER GUILFORD HS
 Client ID: 8-12-PCB-01

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Extraction for PCB							
Completed							
08/13/15 NB/Z SW3540C							

PCB (Soxhlet SW3540C)

PCB-1016	ND	450	ug/kg	2	08/14/15	AW	SW8082A
PCB-1221	ND	450	ug/kg	2	08/14/15	AW	SW8082A
PCB-1232	ND	450	ug/kg	2	08/14/15	AW	SW8082A
PCB-1242	ND	450	ug/kg	2	08/14/15	AW	SW8082A
PCB-1248	ND	450	ug/kg	2	08/14/15	AW	SW8082A
PCB-1254	ND	450	ug/kg	2	08/14/15	AW	SW8082A
PCB-1260	ND	450	ug/kg	2	08/14/15	AW	SW8082A
PCB-1262	ND	450	ug/kg	2	08/14/15	AW	SW8082A
PCB-1268	ND	450	ug/kg	2	08/14/15	AW	SW8082A
QA/QC Surrogates							
% DCBP	65		%	2	08/14/15	AW	30 - 150 %
% TCMX	72		%	2	08/14/15	AW	30 - 150 %



Wednesday, August 19, 2015

Attn: Mr Douglas Belliore
Tighe & Bond
213 Court St, Suite 1100
Middletown, CT 06457

Project ID: FORMER GUILFORD HS
Sample ID#: BJ73558 - BJ73563

This laboratory is in compliance with the NELAC requirements of procedures used except where indicated.

This report contains results for the parameters tested, under the sampling conditions described on the Chain Of Custody, as received by the laboratory.

All soils, solids and sludges are reported on a dry weight basis unless otherwise noted in the sample comments.

A scanned version of the COC form accompanies the analytical report and is an exact duplicate of the original.

If you have any questions concerning this testing, please do not hesitate to contact Phoenix Client Services at ext. 200.

Sincerely yours,

Phyllis Shiller
Phyllis/Shiller

Laboratory Director

NELAC - #NY11301
CT Lab Registration #PH-0618
MA Lab Registration #MA-CT-007
ME Lab Registration #CT-007
NH Lab Registration #213693-A,B
NJ Lab Registration #CT-003
NY Lab Registration #11301
PA Lab Registration #68-03530
RI Lab Registration #63
VT Lab Registration #VT11301

